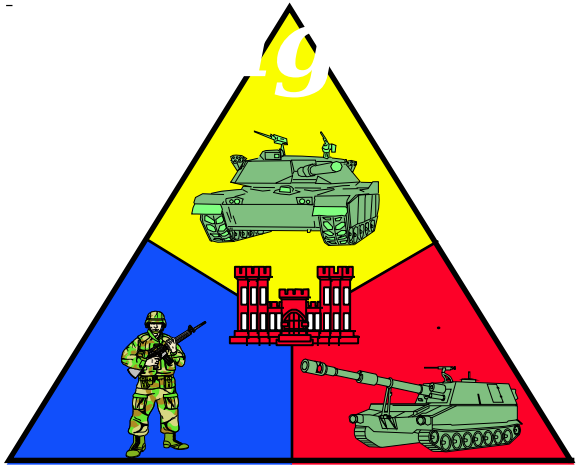
Training Programs for the Dismounted

PM GCTT



PM GCTT

"Training the Force with Ground Combat Training

Presented to:

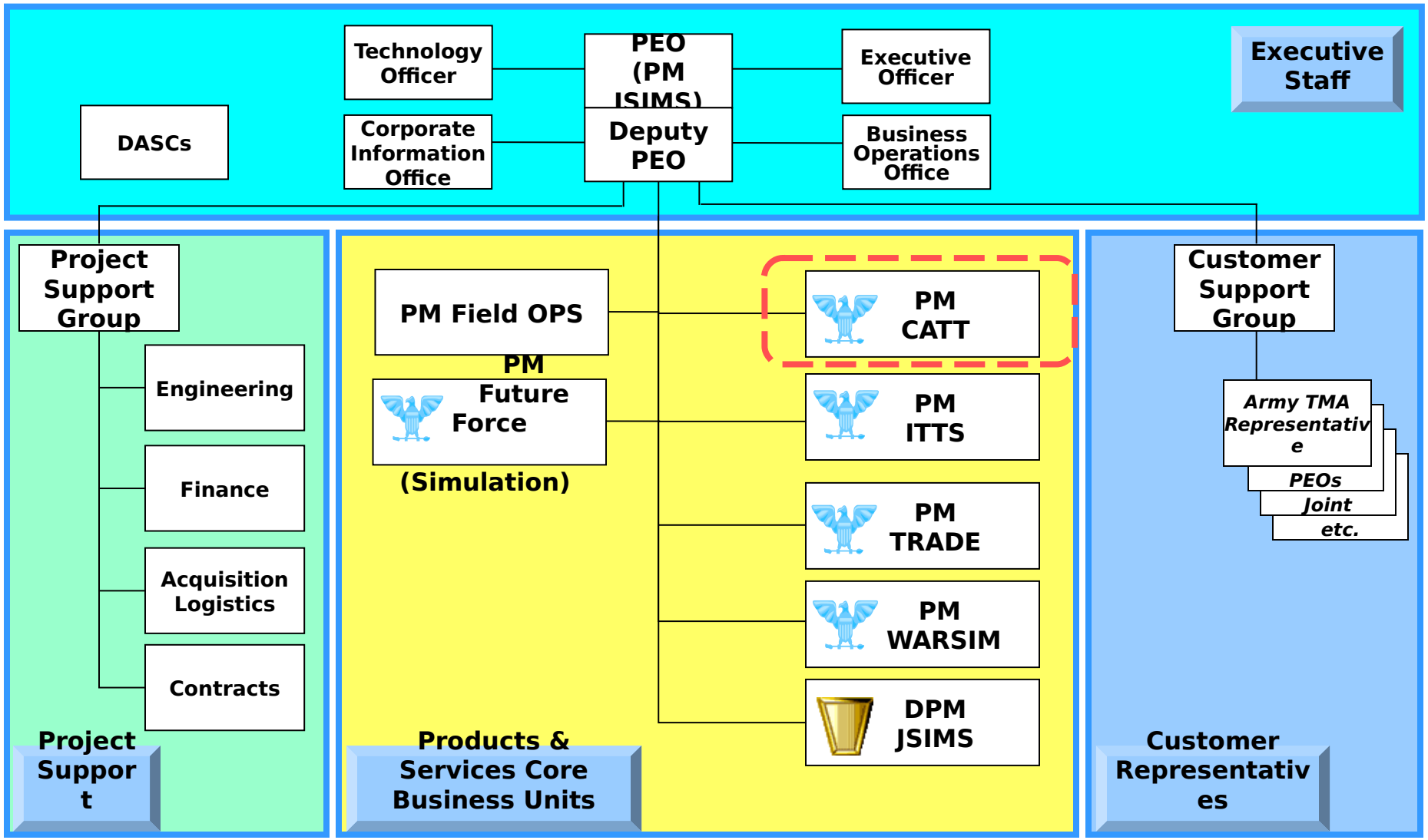
15th Annual SO/LIC Symposium

LTC Joseph. A. Giunta Jr.

Product Manager, Ground Combat Tactical Trainers

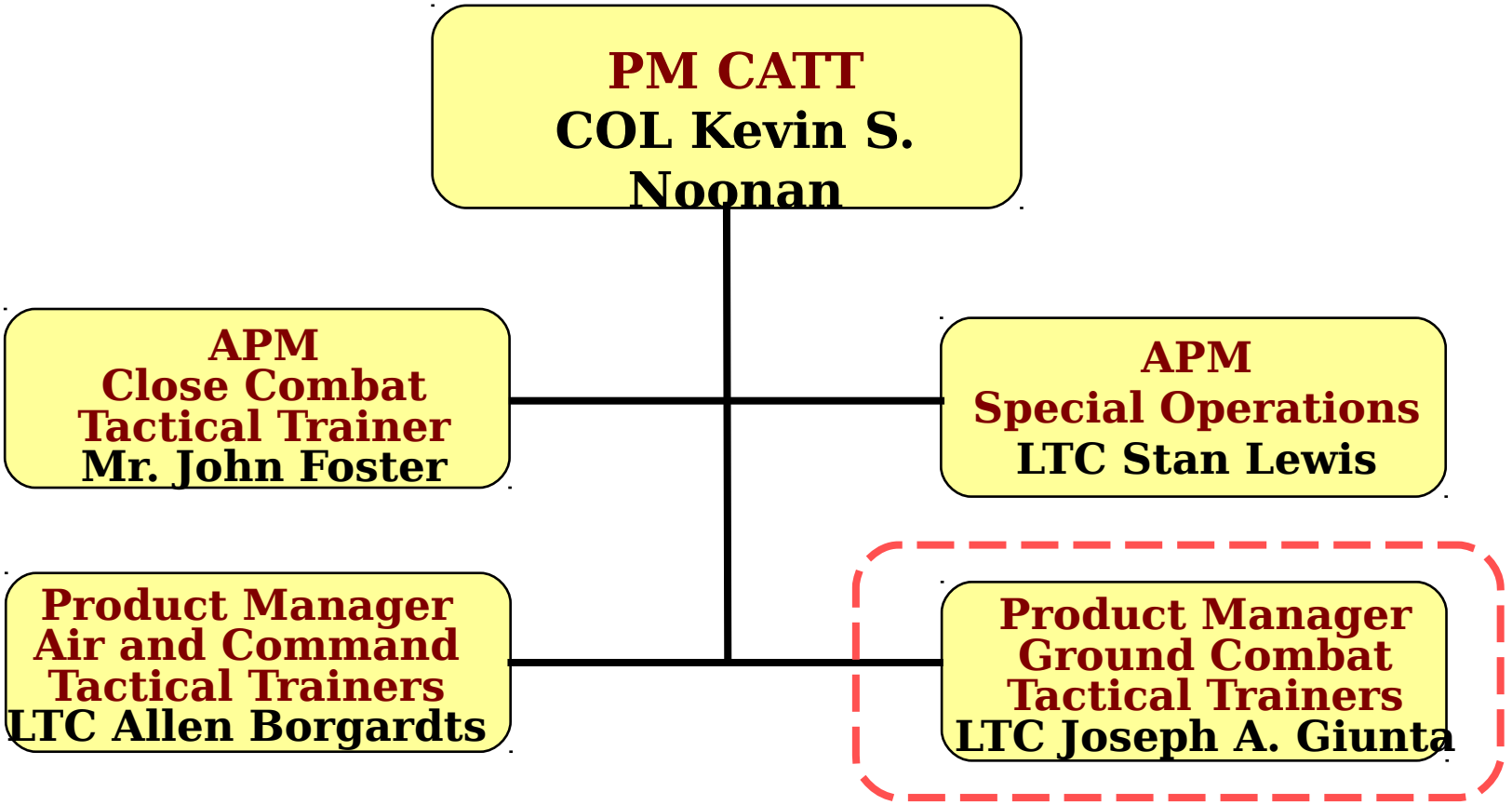
4 – 6 February 2004

Program Executive Office Simulation, Training and



Project Manager Combined Arms Tactical Trainers

PM GCTT



PM GCTT Mission Statement

Develop, Field, and Sustain High Quality Ground Combat and Homeland Defense Virtual Training Devices that Meet or Exceed our Warfighters' and First Responders' Requirements.

Product Manager Ground Combat Tactical Trainers

PM GCTT

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CIVILIAN	**7**
SSC	**7**
Student Intern	
1 Total	**19**
MATRIX	**21**
Total MY	
39	

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VERTS
STRYKER AGTS
AGTS
C-AGTS
AFIST XXI
A/B FIST
BATS-G
Embedded Training
V-IMTS

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M1A2 SEP MTS
M270 MLRS MTS
M2/3A3 MTS
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HIMARS
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LMTS

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ATGM BST
RWS TTT
FIST
Driver Trainer
CROWS

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Project Director
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KUWAIT M1A2
SWORD M1A2
SAUDI M2A2
SANG LAV

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LINEBACKER TTT
LINEBACKER TSV
AVENGER TTT
SLAMRAAM

DEB MARSDEN
Project Director
ext TBD

ROC-V

VACANT
Program Analyst
ext 3668

ROBIN HICKS
Program Analyst
ext 3656

Ground Combat Tactical Trainers Customers

PM GCTT

Army

PM ABRAMS

PM BRADLEY

GROUND COMBAT SYSTEMS

MLRS

SHORAD

SANG

SOLDIER

BCT

TRADOC Schools

Armor
Ft. Knox, KY

Artillery
Ft. Sill, OK

Infantry
Ft. Benning, GA

MANSCEN
Ft. Leonard Wood, MO

Air Defense
Ft. Bliss, TX

Engagement Skills Trainer (EST) 2000 System Description

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Capabilities

- Simulate weapon training events which lead to live-fire individual/crew weapon qualification, BRM qualification and training events currently not resourced under STRAC.
- Provides the medium for training leaders of fire teams and squads in command, control, and distribution of fires while in a realistic collective mode.
- EST 2000 saves current required ammunition resources, OPTEMPO travel time and cost to and from ranges, other range support resources, while
  l,
  iers.

Characteristics/Description

- Provide initial and sustainment marksmanship training, static unit collective gunnery and tactical training, and Shoot/Don't Shoot training
- Supports 3 Modes of Training (marksmanship, squad/fire team collective, judgmental use of force)
- Models 11 Small Arms
- Deployable with its own system shelter
- TRADOC Validated Training Scenarios
- Government Safety Release.

Supports Three Modes of Training

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Marksmanship - Training and Sustainment

Collective

Shoot/Don't Shoot

Scenarios and Weapons Modeled

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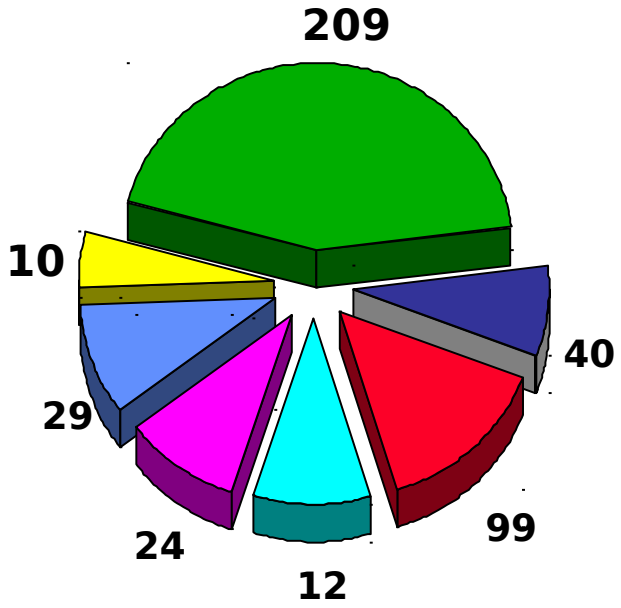
Total of 423 Scenarios

- Army Standard Courses of Fire (209)
- Shoot/Don't Shoot (40)
- Infantry Squad Collective (99)
- Armor Collective (12)
- Engineering Squad Collective (10)
- MP Squad Collective (29)
- CS/CSS Collective (24)



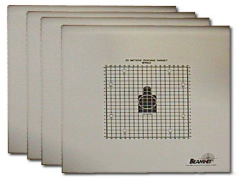
- M60 (7.62mm Machine Gun)
- M136 (84mm AT4)
- M4 (5.56mm Carbine)
- M240B (7.62mm Machine Gun)
- M16A2 (5.56mm Rifle)
- M203 (40mm Grenade Launcher)
- M2 (.50 Caliber Machine Gun)
- M1200 (12 Gauge Shotgun)
- M249 (5.56mm Light Machine Gu
- MK-19 (Machine Grenade Launch
- M9 (9mm Pistol)

Laser Marksmanship Training Systems (LMTS)

PM GCTT

Core Package

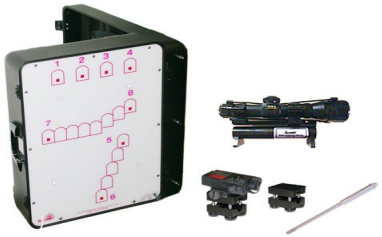
430 Target System



Reflective Zero Targets

LMTS Accessory Kit

Laptop, Laser Alignment Device, Inverters, Power Cables



Machinegun Target System

LMTS

PM GCTT

- Provides individual marksmanship training capabili
- Transportable and Deployable
- Utilizes the Soldiers individual weapon

LMTS Acquisition Strategy

- 25 Aug 03, VCSA Directs LMTS technology and capability be institutionalized throughout all three components of the Army
- 29 Aug 03, Infantry School completes the Army Basic Riflemen Marksmanship (BRM) Strategy
- 12 Sep 03, ATSC briefs BRM Strategy to Commander, TRADOC who then approves the strategy
- 23 Oct 03, Infantry School and ATSC host requirements meeting with MACOMS and PM GCTT
- 21 Jan 04, PEO STRI, PM GCTT host LMTS Kick OFF Meeting
- Feb 04, PM GCTT along with the Rapid Equipping Force (REF) will work the ASPB process to secure funding for the program

Operations in Urban Terrain (MOUT) Capability

- Integrate “Live – Virtual – Constructive” Training tools to better su mission/ needs
- Provide a tool to establish and refine Tactics, Techniques and Proce
- Provide the Dismounted/ Urban Warfighter a mission rehearsal tool
- Prototype effort currently on-going at PEO STRI

V-IMTS Proof of Principle

PM GCTT

Fort Campbell

Instrumented MOUT Site

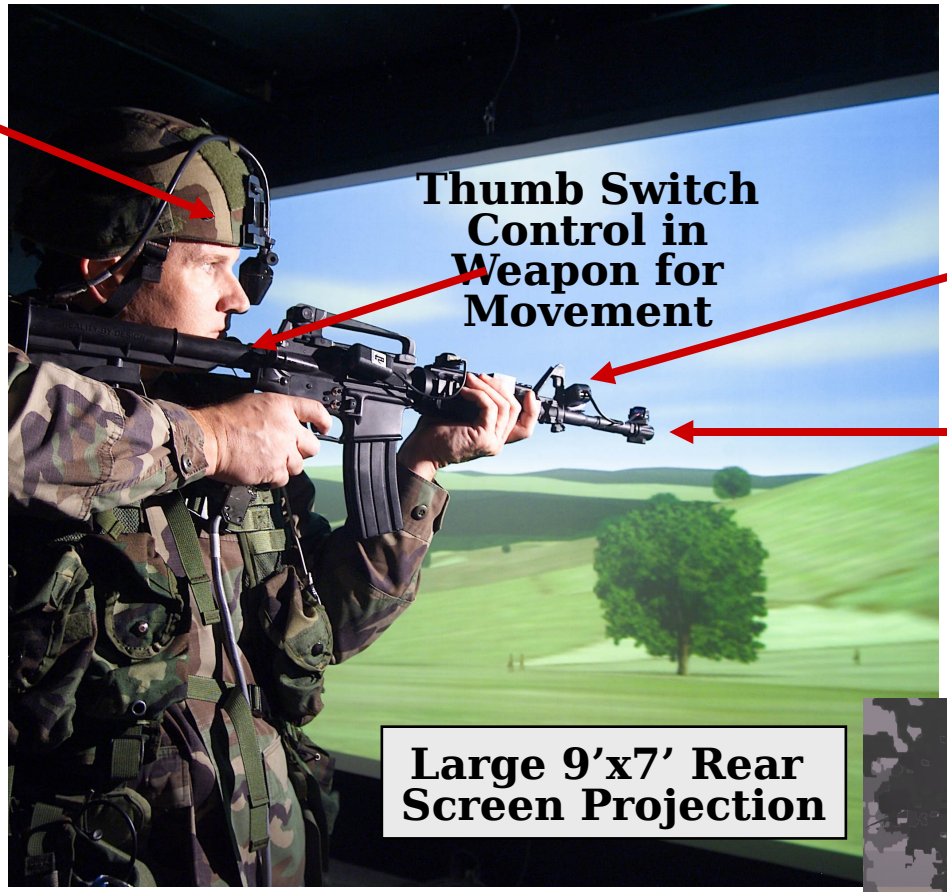
CTIA

LVC

Integrated AAR

V-IMTS Component Capabilities

Land Warrior Emulation ***(Helmet Mounted Display)***



Can emulate AN/PAQ-2A/B

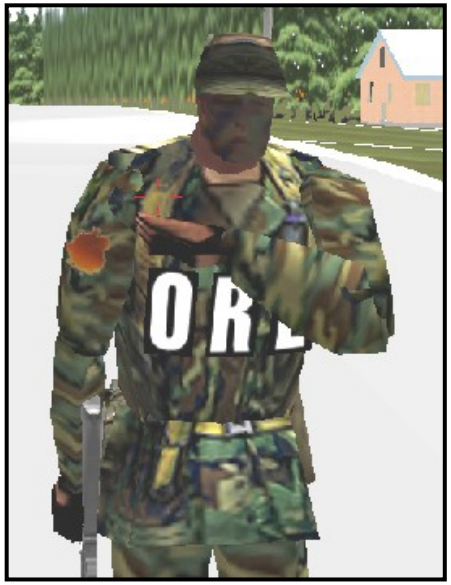
Array of Weapon Ty
- **M-4 Rifle**
- **M249 SAW**
- **M60 MG**
- **Shotgun**

Detects Standing, Kneeling, & Prone Positions

- **Fully immersive environment**
  - **Brings the soldier into the fight**
  - **Can move and interact in the virtual wo**

V-IMTS Synthetic Environment

- Munitions (Grenade, Flare, Smoke)
- Binocular View and Night Vision Capability
- Dynamic Shadow Effects
- Wounding
- Dynamic Terrain
- Furniture Effects (Blocks Line of Sight and Gunfire)
- 3D Positional Audio
  - Hear which way gunfire/vehicles are coming from
  - Hear a bullet ricochet



Mission Rehearsal Capability

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Virtual

Live

Common Drivers Training System (CDTS)

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Table Top Trainer

Driver Trainer

Instructor Operator Station

Convoy Operations

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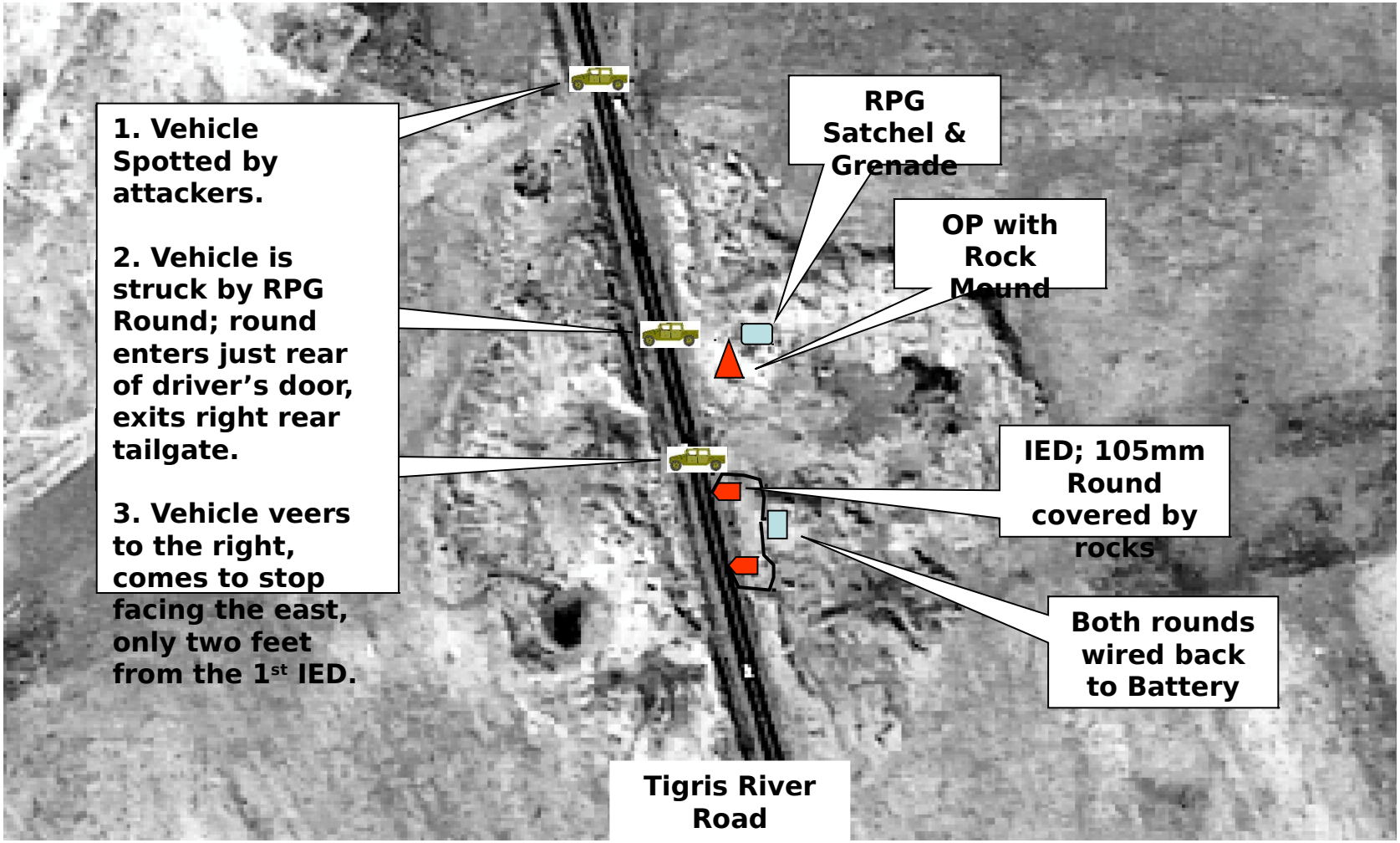
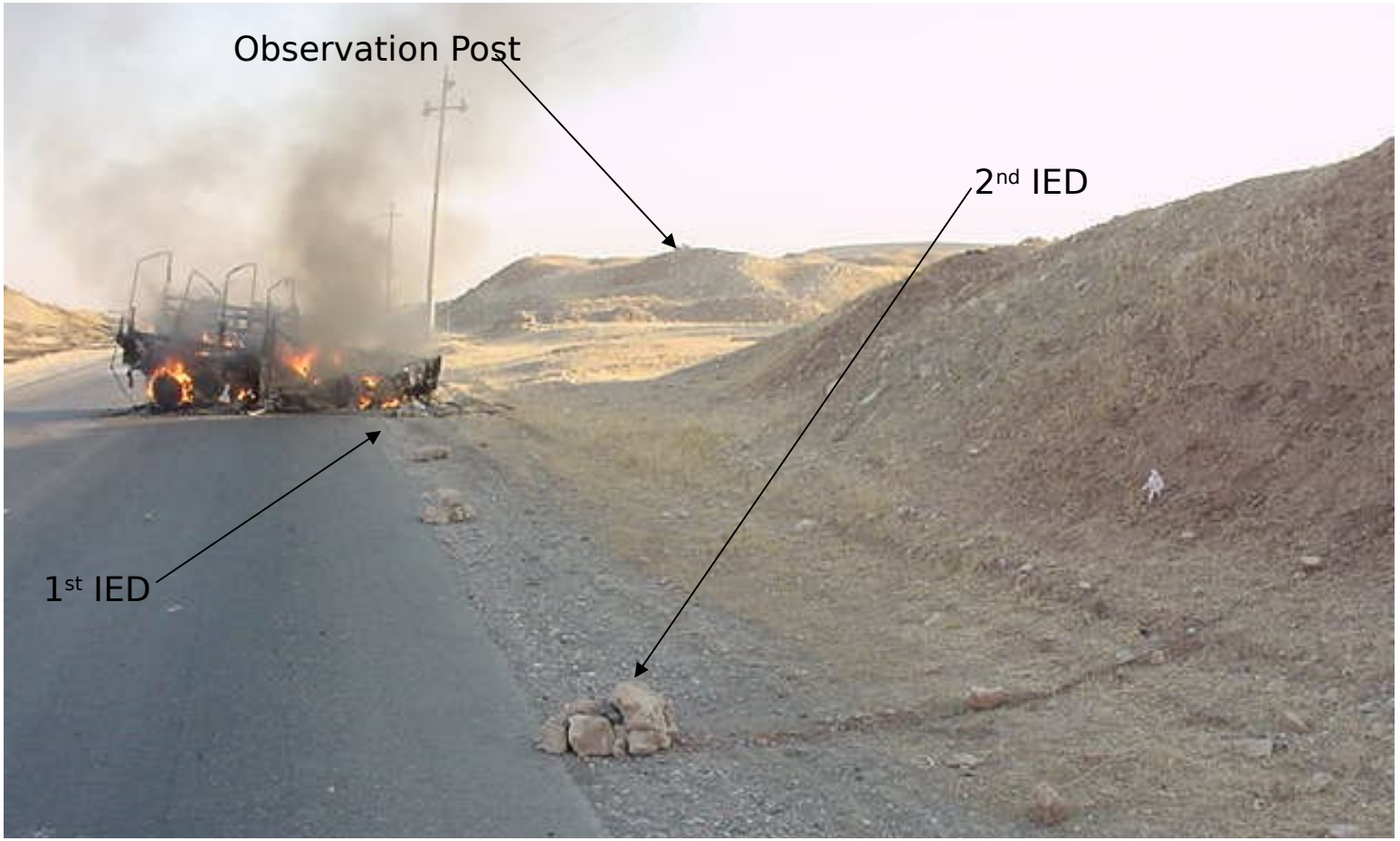
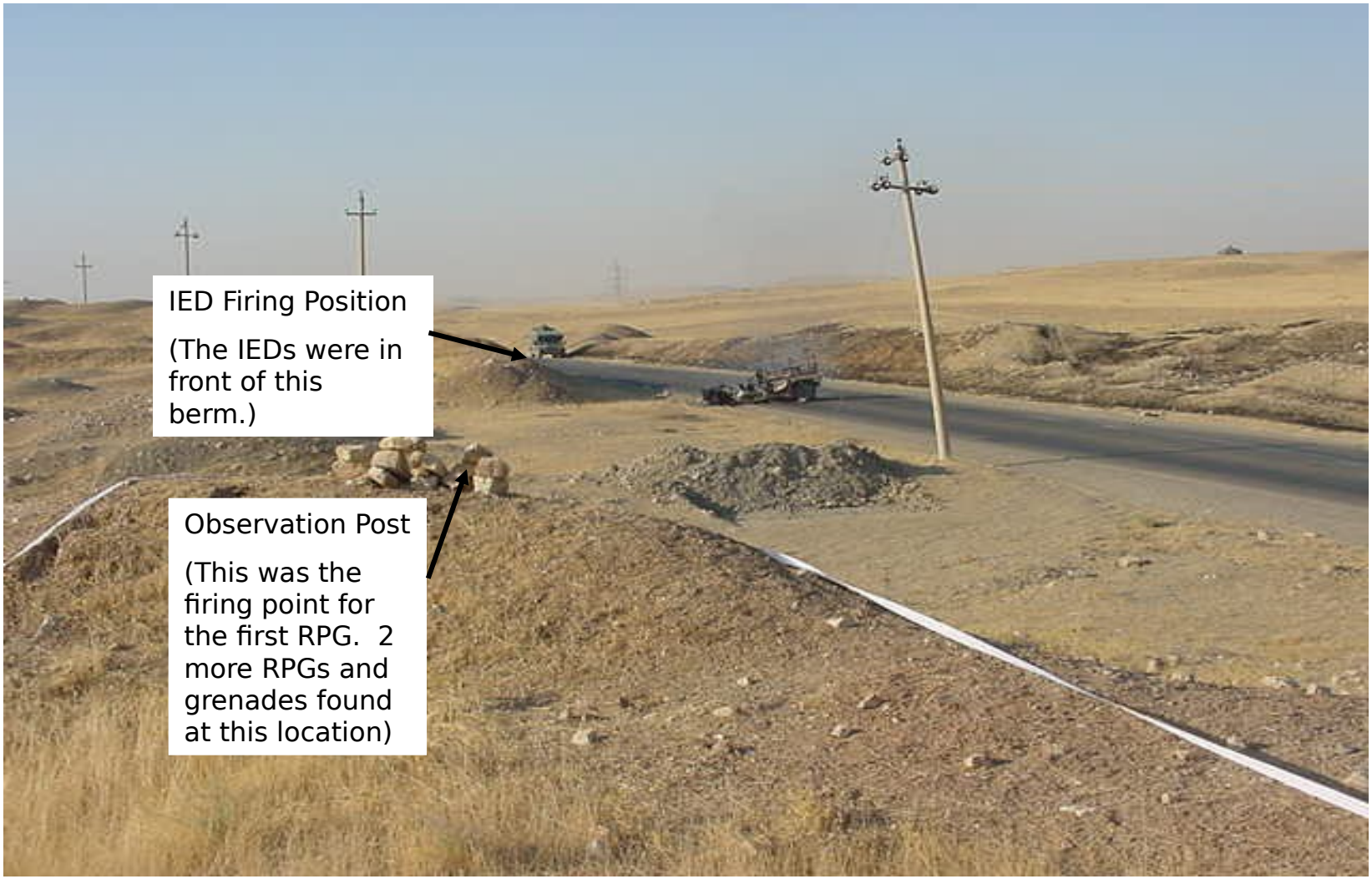

1. Vehicle Spotted by attackers.
2. Vehicle is struck by RPG Round; round enters just rear of driver's door, exits right rear tailgate.
3. Vehicle veers to the right, comes to stop facing the east, only two feet from the 1st IED.
RPG Satchel & Grenade
OP with Rock Mound
IED; 105mm Round covered by rocks
Both rounds wired back to Battery
Tigris River Road

Convoy Operations



Convoy Operations


IED Firing Position
(The IEDs were in front of this berm.)
Observation Post
(This was the firing point for the first RPG. 2 more RPGs and grenades found at this location)

Convoy Operations

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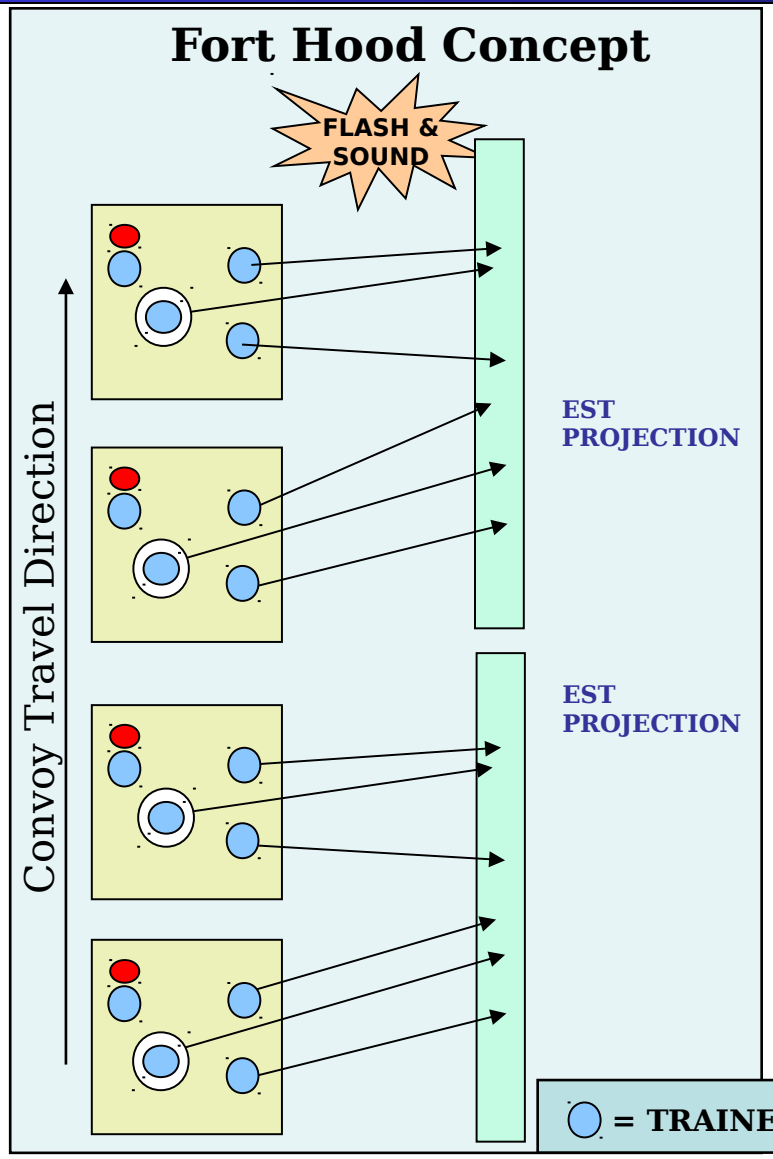
Convoy Operations Partial Task Trainer

PM GCTT

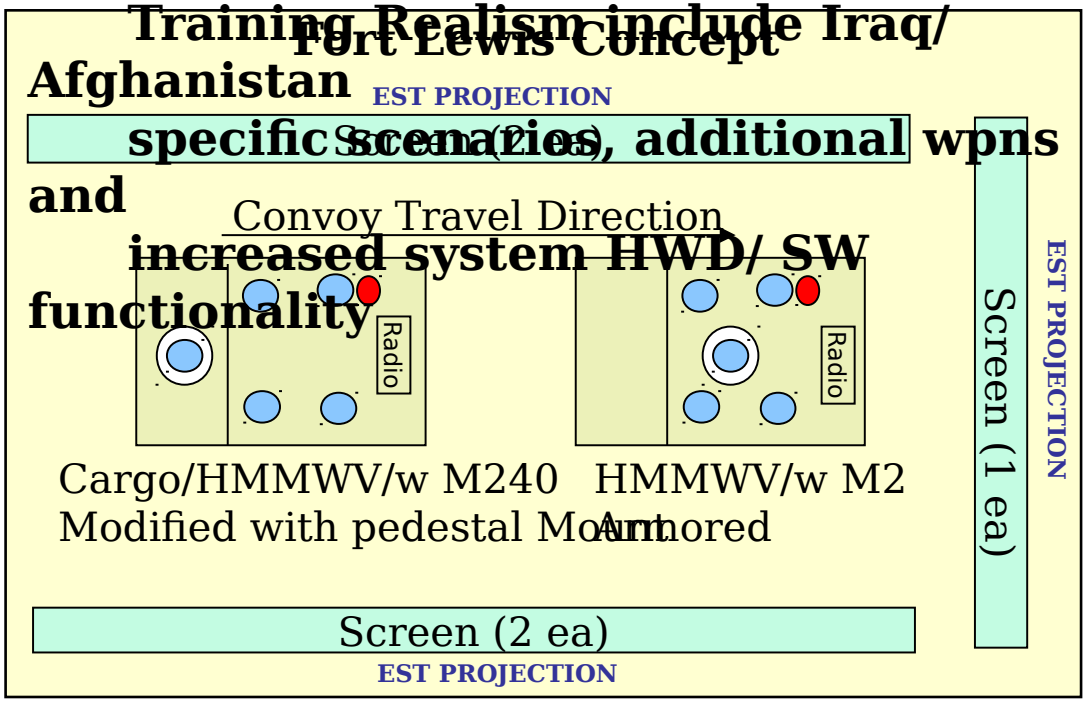
Fort Hood Concept



Evolving Requirement for Convoy Ops Trainer

- **Site Concepts for Application of EST 2000**
- **Near Term Improvements for EST 2000 for Training Realism include Iraq/ Afghanistan specific scenarios, additional wpns and increased system HWD/ SW functionality**

Fort Lewis Concept



= TRAINEE = STEERING WHEEL SYS = MOCK HATCH or Cargo Pedestal M

Questions?